CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.09/KRIDL/CEMENT/2014-15

Date: 16.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of Community Centre at Kempegowdanagara in Ward No.09 (Change Work to Construction of Cement Concrete Roads at Sapthagiri Layout Vasanthappa House Road in Ward No.09, Vidyaranyapura Sub Division), BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/227/2014-15 Dated: 14.08.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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AE-09

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Job No.: CTCE/BBMP/W.No.09/KRIDL/SAND/2014-15 : 16.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of Community Centre at Kempegowdanagara in Ward No.09 (Change Work to Construction of Cement Concrete Roads at Sapthagiri Layout Vasanthappa House Road in Ward No.09, Vidyaranyapura Sub Division), BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/227/2014-15 Dated: 14.08.2014

Date of Testing : 16.08.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	223	11.15	16.25	83.8	75-100
1.18	515	25.75	42.00	58.0	55-90
600 Micron	407	20.35	62.35	37.7	35-59
300 Micron	496	24.80	87.15	12.9	8-30
150 Micron	205	10.25	97.40	2.6	0-10

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Job No.: CTCE/BBMP/W.No.09/KRIDL/AGG/2014-15 : 16.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of Community Centre at Kempegowdanagara in Ward No.09 (Change Work to Construction of Cement Concrete Roads at Sapthagiri Layout Vasanthappa House Road in Ward No.09, Vidyaranyapura Sub Division), BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/227/2014-15 Dated: 14.08.2014

Date of Testing : 16.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 26000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1005	3.87	3.87	96.13	95-100
20	15740	60.54	64.40	35.60	30-70
10	6235	23.98	88.38	11.62	10-35
4.75	2650	10.19	98.58	1.42	0-5

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Job No.: CTCE/BBMP/W.No.09/KRIDL/CUBE/2014-15 26.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Construction of Community Centre at Kempegowdanagara in Ward No.09 (Change Work to Construction of Cement Concrete Roads at Sapthagiri Layout Vasanthappa House Road in Ward No.09, Vidyaranyapura Sub Division), BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/227/2014-15 Dated: 14.08.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2014	26.08.2014	8.264	356.7	15.85
2	19.08.2014	26.08.2014	8.175	335.4	14.91
3	19.08.2014	26.08.2014	8.396	362.8	

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Job No.: CTCE/BBMP/W.No.09/KRIDL/CUBE/2014-15

28.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Construction of Community Centre at Kempegowdanagara in Ward No.09 (Change Work to Construction of Cement Concrete Roads at Sapthagiri Layout Vasanthappa House Road in Ward No.09, Vidyaranyapura Sub Division), BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/227/2014-15 Dated: 14.08.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.08.2014	28.08.2014	8.264	335.9	14.93
2	21.08.2014	28.08.2014	8.378	348.2	15.48
3	21.08.2014	28.08.2014	8.496	360.7	16.03

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AE - 09

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